

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) Apparatus for use in a first device to receive digital data [[non-wirelessly]] from a second device, the apparatus comprising:

a jack configured to receive analog signals encoded with the digital data; and

a conversion unit coupled to the jack and configured to recover the digital data from the analog signals;

wherein the first device is one of a mobile phone, a personal digital assistant or a smart phone and wherein the second device is one of a mobile phone, a personal digital assistant or a smart phone.

2. (Original) The apparatus of claim 1, further comprising:

a non-wireless communication device configured to couple with the jack, the non-wireless communication device configured to carry the analog signals encoded with digital data to the first device using the jack.

3. (Original) The apparatus of claim 2, wherein the non-wireless communication device comprises:

a non-wireless medium having a first end and a second end;

a first plug coupled to said first end and configured to couple to the jack; and

a second plug coupled to said second end and configured to couple to a jack of the second device.

4. (Original) The apparatus of claim 1, wherein the jack is configured to couple to either one of a headphone or a headset.

5. The apparatus of claim 4, wherein the jack is configured to receive perceptible sound.

6. (Currently Amended) A method for use in a first device to receive digital data [[non-wirelessly]] from a second device, the method comprising:

receiving analog signals encoded with the digital data using a jack; and

recovering the digital data from the analog signals;

wherein the first device is one of a mobile phone, a personal digital assistant or a smart phone and wherein the second device is one of a mobile phone, a personal digital assistant or a smart phone.

7. (Original) The method of claim 6, further comprising:
coupling a non-wireless communication device to the jack; and
receiving the analog signals through the non-wireless communication device.
8. (Original) The method of claim 7, wherein receiving the analog signals comprises:
receiving the analog signals as audible analog signals.
9. (Original) The method of claim 7, wherein receiving the analog signals comprises:
receiving the analog signals electronically.
10. (Original) The method of claim 6, further comprising:
receiving perceptible sound using the jack.
11. (Currently Amended) Apparatus for use in a first device to transmit digital data [[non-wirelessly]] to a second device, the apparatus comprising:
a conversion unit configured to encode the digital data into analog signals; and
a jack coupled to the conversion unit and configured to transmit the analog signals encoded with digital data;
wherein the first device is one of a mobile phone, a personal digital assistant or a smart phone and wherein the second device is one of a mobile phone, a personal digital assistant or a smart phone.
12. (Original) The apparatus of claim 11, further comprising:
a non-wireless communication device configured to couple with the jack, the non-wireless communication device configured to carry the analog signals encoded with digital data from the first device using the jack.

13. (Original) The apparatus of claim 12, wherein the non-wireless communication device comprises:

a non-wireless medium having a first end and a second end;

a first plug coupled to said first end and configured to couple to the jack; and

a second plug coupled to said second end and configured to couple to a jack of the second device.

14. (Original) The apparatus of claim 11, wherein the jack is configured to couple to either one of a headphone or a headset.

15. (Original) The apparatus of claim 14, wherein the jack is configured to output perceptible sound.

16. (Currently Amended) Method for use in a first device to transmit digital data [[non-wirelessly]] to a second device comprising:

encoding the digital data into analog signals; and

transmitting the analog signals encoded with digital data using a jack;

wherein the first device is one of a mobile phone, a personal digital assistant or a smart phone and wherein the second device is one of a mobile phone, a personal digital assistant or a smart phone.

17. (Original) The method of claim 16, further comprising:

coupling a non-wireless communication device to the jack; and

transmitting the analog signals through the non-wireless communication device.

18. (Original) The method of claim 17, wherein transmitting the analog signals comprises:

transmitting the analog signals as audible analog signals.

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19. (Original) The method of claim 17, wherein transmitting the analog signals comprises:

transmitting the analog signals electronically.

20. (Original) The method of claim 16, further comprising:
outputting perceptible sound using the jack.

21. (Currently Amended) Apparatus for use in a first device to receive digital data [[non-wirelessly]] from a second device, the apparatus comprising:

means for receiving through a jack analog signals encoded with the digital data; and

means for recovering the digital data from the analog signals;

wherein the first device is one of a mobile phone, a personal digital assistant or a smart phone and wherein the second device is one of a mobile phone, a personal digital assistant or a smart phone.

22. (Original) The apparatus of claim 21, further comprising:

a non-wireless means for carrying the analog signals encoded with digital data to the first device using the jack.

23. (Currently Amended) Apparatus for use in a first device to transmit digital data [[non-wirelessly]] to a second device, the apparatus comprising:

means for encoding digital data into analog signals; and

means for transmitting through a jack the analog signals encoded with digital data;

wherein the first device is one of a mobile phone, a personal digital assistant or a smart phone and wherein the second device is one of a mobile phone, a personal digital assistant or a smart phone.

24. (Original) The apparatus of claim 23, further comprising:

non-wireless means for carrying the analog signals encoded with digital data from the first device to the second device using the jack.

Claims 25-29 (Cancelled)

30. (New) Apparatus for use in a first device to receive digital data from a second device, the apparatus comprising:

a jack configured to receive analog signals encoded with the digital data; and

a conversion unit coupled to the jack and configured to recover the digital data from the analog signals;

wherein the conversion unit recovers the digital data based on either an analog to digital conversion or a multi-carrier demodulation.

31. (New) The apparatus of claim 30, wherein the analog signals have frequencies in the range of approximately 1 kHz to 3 kHz.

32. (New) Apparatus for use in a first device to transmit digital data to a second device, the apparatus comprising:

a conversion unit configured to encode the digital data into analog signals; and

a jack coupled to the conversion unit and configured to transmit the analog signals encoded with digital data;

wherein the conversion unit encodes the digital data based on either a digital to analog conversion or a multi-carrier modulation.

33. (New) The apparatus of claim 32, wherein the analog signals have frequencies in the range of approximately 1 kHz to 3 kHz.